

Dear All,

Welcome to the Graphics and Visualization seminar 2025/26. We will have a first in-person meeting with the participants once the topics have been assigned.

Your tasks:

1. Select 3 papers in decreasing priority from the link below.

Send email to westermann@tum.de with your name, student id and selections until 14.10.2025.

2. Read and understand the assigned paper. You can use chatgpt and/or deepseek with specific prompting, e.g., "Summarize the paper in plain language." "Summarize the paper section by section." "What is the research problem this paper addresses, and why is it important?" "Explain the key contributions in bullet points." "Explain the method/model in detail, step by step." "Can you walk me through the mathematical formulation?" "Break down Figure X and describe what it's showing." "What do the experimental results mean?" "why is the method important" "how does the method advance the state of the art" "Define all technical terms used in this paragraph." "Rewrite this paragraph in clearer language."

Check whether LLMs have considered all specific contributions, if not, either refine prompts or do manually.

Summarize the proposed method in 1 page.

3. Write down a 1 page critical assessment, i.e., explain precisely which problem is addressed, why the problem is relevant, why it needs another method, what did previous methods do, does the current method advance the state of the art and how is it measured.

Note: The critical assessment is NOT a summary of the method.

4. Generate a quiz using a LLM asking specific questions about the paper's content. The quiz should be given to graduate students to check whether they have understood the method and the underlying principles.

5. Prepare a presentation which showcases the method to the other students. Use the critical assessment from 3. to structure your presentation. Note: you should not have more than 15 slides, you should not use a fix slide template, you should have a convincing design, you should not go too deep with equations, you should not have any sentence with more than 4 words on your slides. You should have a live demonstration at the end of your talk, if none is available for the method you present, look for something similar.

6. Be critical opponent: you will be assigned 2 additional papers from those that have been assigned to others. For these 2 papers, use your brain and/or LLMs to critically

assess the proposed methods, i.e., find out weaknesses etc. Prepare 2 questions on each paper which you will ask the presenter at the end of his/her presentation.

Select paper from <https://www.realtimerendering.com/kesen/sig2025.html>

from the sessions: „**Splatting Bigger, Faster**“ and „**Adaptive and Gaussian Reconstruction**“